

What is claimed is:

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1. An improved grinder, comprising:
a hollow housing, having a housing ring at an upper portion and a partition seat at a middle portion, said housing ring including a ring having a housing hole, said partition seat inclining downwardly towards a center of said housing and having a seat hole;
a spindle, being a polyangular rod and having a baffle piece at a bottom thereof;
- 10 a grinding device, comprising a conical grinding disk and a circular, stepped grinding base, said grinding disk having an angular hole at a center thereof for passage of said spindle therethrough to achieve linking-up movement, said angular hole having a plurality of inclined, radial disk wings extending integrally from a periphery thereof, with a multiplicity of obliquely extending disk teeth inter-disposed among said disk wings; said grinding base having a base rim at a lower portion thereof and a grinding cylinder at an upper portion thereof for insertion into said seat hole, said grinding cylinder having a plurality of oblique grinding teeth at an inner surrounding wall thereof, said spindle being passed through said grinding cylinder to bring said grinding disk to rotate so as to grind a spice disposed between said disk wings and said grinding teeth into pieces, the pieces being further ground by said

disk teeth and said grinding teeth into spice powder having a particle size smaller than a clearance between said disk teeth and said grinding teeth so that the spice powder may drop out therefrom;

5 an adjusting device, comprising an annular base disk with two wings each extending from either side of said base disk, said two wings extending to a disk post at a center of said base disk, said disk post having a disk hole and two wing slots, a disk packing having two side wings being disposed in said disk hole, with said two side wings located in said wing slots, a screw rod of a knob being passed through said disk hole of said disk post to lock with a packing piece, thereby when said knob is turned said disk packing may displace upwardly and downwardly and further cause said spindle connected with said disk packing may displace upwardly and downwardly as well, for adjusting the clearance between said disk teeth and said grinding teeth, screws being passed through said base disk to lock said grinding base to a bottom of said partition seat; and

10 a driving device, having an angular hole fittingly connected with said spindle.

15 2. An improved grinder as claimed in Claim 1, wherein said grinding disk and said grinding base are preferably made of ceramics.

20 3. An improved grinder as claimed in Claim 1, wherein

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5 said driving device comprises an upper cover and a rotary seat, said upper cover having an internal diameter corresponding to said housing ring and having an insert hole at the center of an inner wall thereof for coupling with an insert post of said rotary seat, said rotary seat having a connecting post at a bottom end thereof with a size matching said housing hole and an angular hole disposed below said connecting post for receiving said spindle, an outer side of said connecting post being provided with two or more resilient connecting projections each having a hook portion for engaging an inner wall of said housing hole so that said upper cover on said housing ring may be manually rotated.

10 15 4. An improved grinder as claimed in Claim 1, wherein said driving device is comprised of pertinent circuit means connected to battery means, motor means and a power device of a speed change device, and a shell, and wherein said housing has two or more retaining grooves provided at the inner wall of said housing hole and two or more guide grooves disposed at a periphery of said housing ring so that a plurality of posts of a mounting column at a bottom side of said power device may be rotatably inserted into said retaining grooves, such that an angular hole in said power device may couple with said spindle, a switch button being further

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disposed at a top side of said power device, said shell having a size slightly greater than that of said power device, and being provided with two or more retaining lugs at an inner surrounding wall thereof for insertion into said guide grooves, said shell being further provided with a through hole at a position corresponding to that of said switch button so that the latter may project therefrom, thereby said switch button may be pressed to start rotation of said spindle to proceed with the grinding operation.

5. An improved grinder as claimed in Claim 4, wherein a lighting device is further provided at one side of said adjusting device, and a circuit device is disposed on said ring of said housing, said circuit device comprising two electrically conductive rods extending from the bottom side of said power device, and said ring being provided with corresponding connecting holes, electrically conductive screws being locked in said connecting holes so that lead wires in said connecting holes may extend downwardly to pass through said partition seat, said lighting device comprising a curved light base having a partition plate disposed at a center thereof, an electrically conductive terminal being disposed at either side of said light base for pivotal connection with the corresponding lead wire 133 of said circuit device, two projecting plates with retaining

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grooves respectively extending from a bottom side of
said light base for receiving a light bulb, such that
two connecting poles of said light bulb pass through
said light base to connect with the corresponding
electrically conductive terminals, thereby said switch
button may be pressed to light up said light bulb.

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